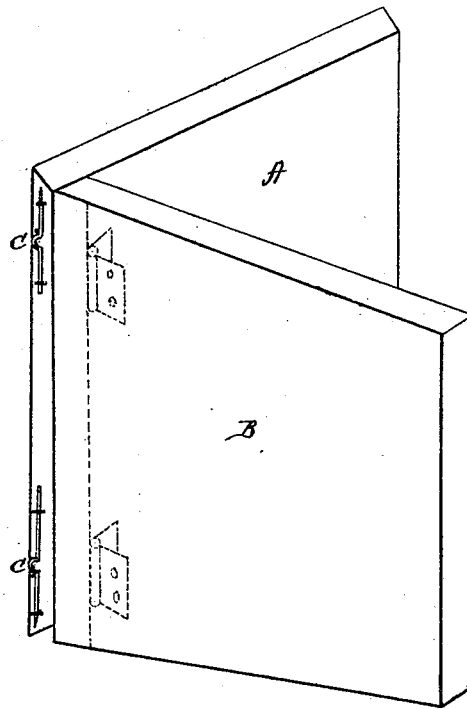


*W. Conrad,* 2. Sheets, Sheet 1.

*Car Ventilator.*

*No. 107,163.*

*Patented Sept. 6. 1870.*



Witnesses

*James E. Hutchinson*  
*L. L. Ever*

Inventor

*William Conrad*  
*per*  
*Alexander Mearns*  
*Attys*

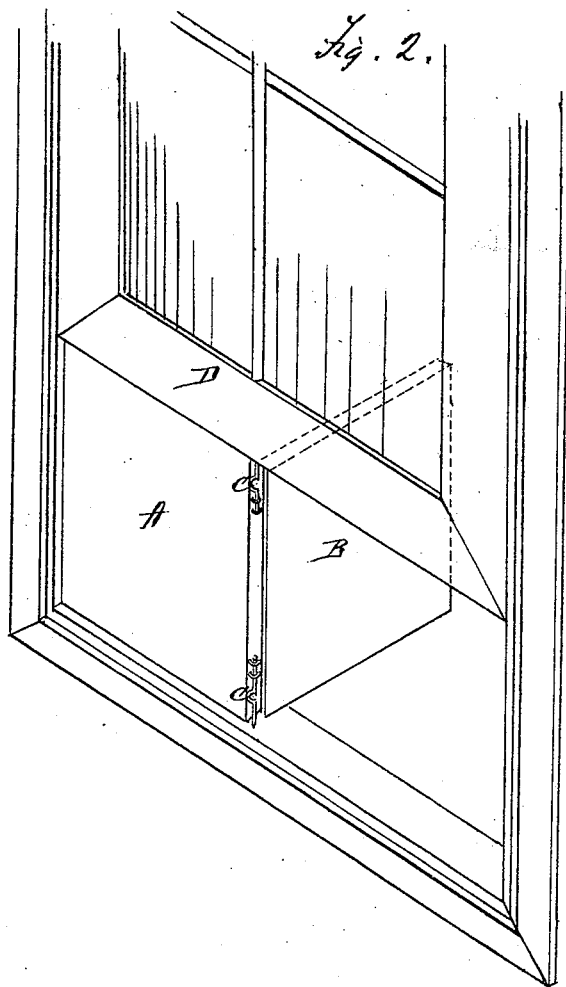
W. Conrad,

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Car Ventilator.

No. 107,163.

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Witnesses

C. L. Evert.  
James O. Hutchinson.

Inventor.

William Conrad  
per  
Alexander Mason  
attys.

# UNITED STATES PATENT OFFICE.

WILLIAM CONARD, OF BURLINGTON, NEW JERSEY.

## DEFLECTOR FOR WINDOWS OF RAILROAD-CARS.

Specification forming part of Letters Patent No. **107,163**, dated September 6, 1870.

*To all whom it may concern:*

Be it known that I, WILLIAM CONARD, of Burlington, in the county of Burlington, and in the State of New Jersey, have invented certain new and useful Improvements in Deflectors for Car-Windows; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a deflector for car-windows, to prevent smoke, dust, &c., from entering the window when open, but at the same time allow free ventilation.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of the deflector; and Fig. 2 is a perspective view showing the manner in which the deflector is applied to a car-window.

A represents a plate, made of wood or metal, about square, and of such dimensions that, when inserted under the window of a car, it will close up about one-half of the width of the window, as shown in Fig. 2. The car-window D is raised up and the plate placed in position, as shown, when the window is let down on top of the same. Upon the edge of the plate A, which is at about the center of the window, are two sliding pins, C C, which may be moved up or down, so as to enter the

window frame and sash, to hold the plate in place and prevent its falling out by the jarring of the car. Near the same edge, but upon the outside of the plate A, is hinged another similar plate, B, which, when opened, stands at right angles with the plate A, projecting outward from the car.

The operation of this device will be readily understood. The gate A covers up the front half of the space left open by the raising of the window, and the plate B projects outward from the rear edge of the plate A, so that any smoke, dust, ashes, &c., which would pass from the front of the train toward the rear and be drawn in through the open window will strike this projecting plate B and change direction outward from the car, and not enter the open space of the window. The traveler sitting at the window can readily turn the plate B on its hinges forward against the plate A when he desires to look toward the head of the train.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A portable deflector for car-windows composed of two plates, A and B, hinged together, substantially as shown and described, and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of June, 1870.

WILLIAM CONARD.

Witnesses:

HENRY HOLLEMBACK,  
JOSEPH L. POWELL.